Subject: Test Results Of Chamber L2C0#3 Posted by Sascha Freuen on Thu, 30 Sep 2004 13:33:11 GMT View Forum Message <> Reply to Message

Dear All

As an example, the results of testing chamber I2C0#3 are shown below (leakrate, gain curve, gain uniformity)

1.Leakrate

The oxygen content within the chamber is measured in intervals of 5 minutes. The asymptotic value is an indicator of the leakrate. The flow rate was set at 10 l/h which leads to a time constant of ~4h Fit : $f(x)=a+b^*exp(-c^*x)$

3.Gain Uniformity

There are two different measurement modes:

1. 1D scans with 4mm steps .Here you can clearly see the radiator bars, which absorb very strongly

1.1 4mm steps scan in z-direction at two different phi positions

1.2 4mm steps scan in phi-direction at two different z positions

2. A full 2D scan with 4cm equidistant steps. Here one can only see the radiator bar in the middle very clearly, due to the bigger step size.

Subject: Re: Test Results Of Chamber L2C0#3 Posted by Harald Appelshaeuser on Tue, 12 Oct 2004 08:00:51 GMT View Forum Message <> Reply to Message

Dear Sascha,

very impressive pictures indeed. Just on question: in all cases the X-ray tube was used for irradiation?

Regards, Harry

Subject: Re: Test Results Of Chamber L2C0#3 Posted by Sascha Freuen on Tue, 12 Oct 2004 17:32:26 GMT View Forum Message <> Reply to Message

Dear Harry

For the gain curve measurement the Sr90 source was used.

Regards Sascha

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